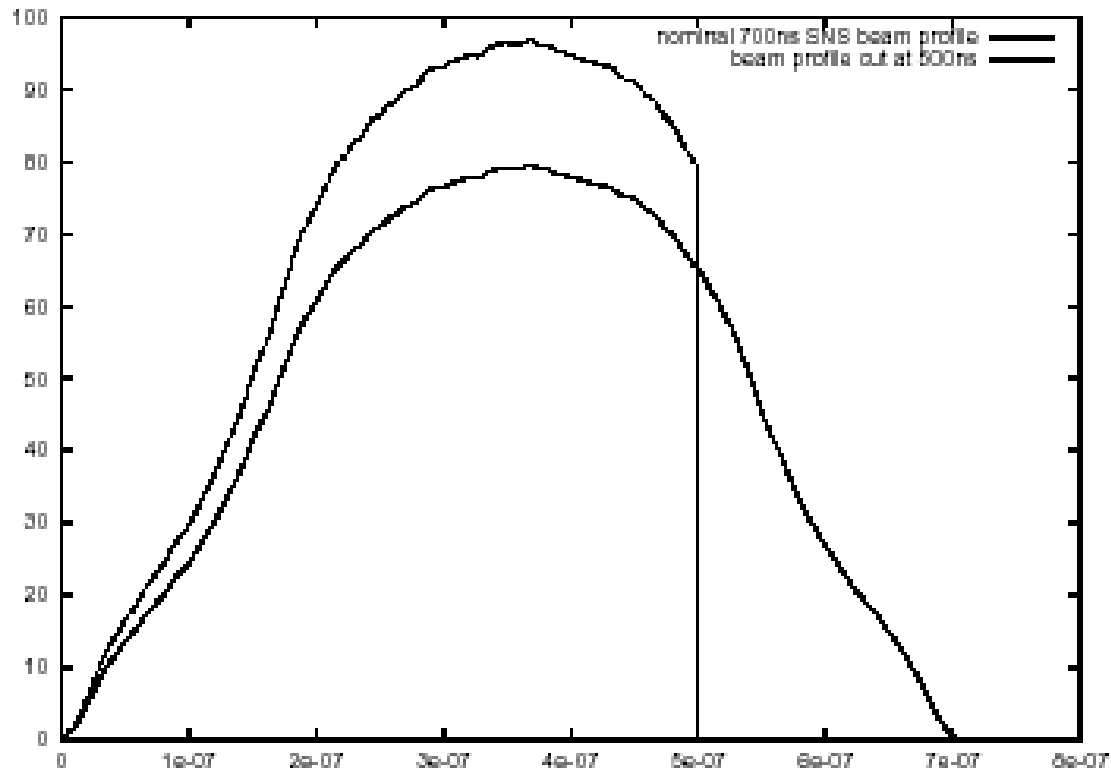
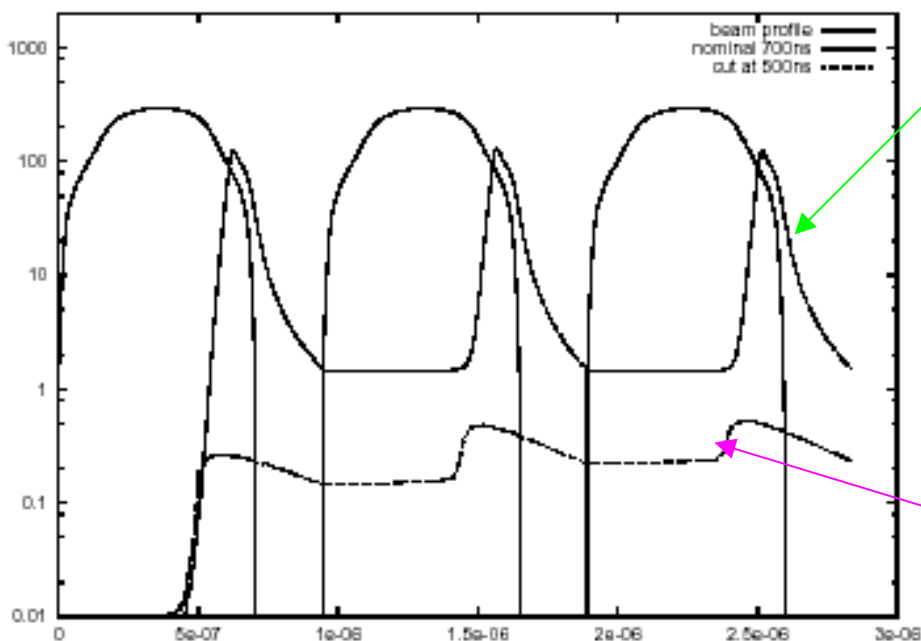


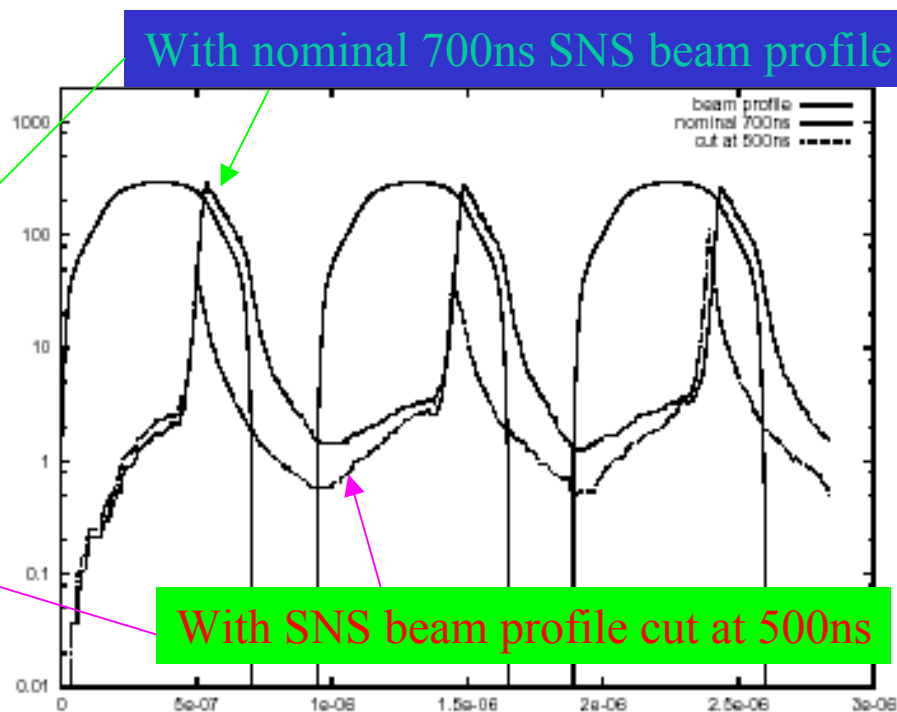
# SNS beam current profile cut at 500ns, compared to the nominal beam profile



**Simulated electron density in an SNS field-free region. We have artificially truncated the tail of the bunch, while maintaining the same integrated beam charge.**



$\delta_{\max}=2.0$ ,  $p_{\text{lossrate}}=1.1\text{E-}6/\text{ring}$   
(**LBL**)



$\delta_{\max}=2.0$ ,  $p_{\text{lossrate}}=1.1\text{E-}6/\text{m}$   
(**BNL**)